

ABSTRACT OF THE DISCLOSURE

The DCOC block is used in ZIF BB to form HPF function to cancel dc offset with a penalty of small silicon area and low power consumption. It is a LPF plus a voltage to current conversion (VIC) resistor, and can hook up with any BB opamp used in signal path, to form a feedback loop, with or without signal gain stages in the loop. The BB opamp is used as a summing point. The summing method is input current summing. The cutoff frequency of the HPF function is thus defined by the integrator, the VIC resistor, and the feedback resistor in the summing opamp. The presence of the VIC resistor can drastically reduce the integrator capacitor and resistor values and thus save silicon area or improve receiver performance.

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